# Performance Data Sheet

## AVB5549EXN

## General Information

| | | | |
|---|---|---|---|
| **Model** | AVB5549EXN | **Refrigerant** | R-22 |
| **Test Condition** | ARI | **Performance Test Voltage** | 230V ~ 60HZ |
| **Return Gas** | 18.3°C (65°F) RETURN GAS | **Motor Type** | PSC |

## Performance Information

| Evap Temp (°F) | | Condensing Temperature (°F) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
| -15 | Btu/h | 13200 | 11700 | | | | | |
| | Watts | 2020 | 2000 | | | | | |
| | Amps | 8.98 | 9.09 | | | | | |
| | Lb/h | 170 | 157 | | | | | |
| -10 | Btu/h | 16000 | 14200 | 12500 | | | | |
| | Watts | 2180 | 2180 | 2170 | | | | |
| | Amps | 9.69 | 9.88 | 9.95 | | | | |
| | Lb/h | 205 | 190 | 174 | | | | |
| -5 | Btu/h | 19100 | 17100 | 15200 | 13200 | | | |
| | Watts | 2330 | 2360 | 2370 | 2370 | | | |
| | Amps | 10.4 | 10.6 | 10.8 | 10.8 | | | |
| | Lb/h | 243 | 227 | 210 | 191 | | | |
| 0 | Btu/h | 22600 | 20400 | 18300 | 16100 | 13800 | | |
| | Watts | 2470 | 2520 | 2560 | 2590 | 2580 | | |
| | Amps | 11.0 | 11.4 | 11.6 | 11.8 | 11.7 | | |
| | Lb/h | 286 | 268 | 250 | 230 | 207 | | |
| 5 | Btu/h | 26500 | 24000 | 21700 | 19300 | 16800 | | |
| | Watts | 2590 | 2670 | 2740 | 2800 | 2820 | | |
| | Amps | 11.5 | 12.0 | 12.4 | 12.7 | 12.8 | | |
| | Lb/h | 333 | 314 | 295 | 274 | 249 | | |
| 10 | Btu/h | 30800 | 28100 | 25500 | 22800 | 20100 | 17200 | 14100 |
| | Watts | 2700 | 2810 | 2910 | 2990 | 3050 | 3070 | 3050 |
| | Amps | 12.0 | 12.6 | 13.1 | 13.5 | 13.8 | 13.8 | 13.7 |
| | Lb/h | 384 | 364 | 344 | 322 | 296 | 266 | 230 |
| 15 | Btu/h | 35500 | 32500 | 29600 | 26700 | 23800 | 20700 | 17300 |
| | Watts | 2790 | 2940 | 3070 | 3180 | 3270 | 3320 | 3330 |
| | Amps | 12.5 | 13.2 | 13.8 | 14.3 | 14.7 | 14.9 | 14.9 |
| | Lb/h | 440 | 419 | 397 | 374 | 348 | 317 | 280 |
| 20 | Btu/h | 40600 | 37300 | 34200 | 31000 | 27800 | 24500 | 20900 |
| | Watts | 2870 | 3040 | 3210 | 3350 | 3480 | 3560 | 3610 |
| | Amps | 12.8 | 13.7 | 14.4 | 15.1 | 15.6 | 16.0 | 16.2 |
| | Lb/h | 501 | 478 | 455 | 431 | 404 | 372 | 335 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **25** | Btu/h | 46100 | 42600 | 39100 | 35700 | 32200 | 28600 | 24800 |
| | Watts | 2920 | 3130 | 3330 | 3510 | 3670 | 3790 | 3880 |
| | Amps | 13.1 | 14.1 | 15.0 | 15.8 | 16.5 | 17.0 | 17.3 |
| | Lb/h | 566 | 541 | 517 | 492 | 464 | 432 | 394 |
| **30** | Btu/h | 52100 | 48300 | 44500 | 40800 | 37000 | 33100 | 29100 |
| | Watts | 2960 | 3200 | 3440 | 3660 | 3850 | 4010 | 4130 |
| | Amps | 13.2 | 14.4 | 15.5 | 16.4 | 17.3 | 18.0 | 18.5 |
| | Lb/h | 635 | 610 | 584 | 558 | 530 | 497 | 459 |
| **35** | Btu/h | 58600 | 54400 | 50300 | 46300 | 42200 | 38000 | 33700 |
| | Watts | 2970 | 3250 | 3520 | 3780 | 4010 | 4210 | 4370 |
| | Amps | 13.3 | 14.6 | 15.9 | 17.0 | 18.0 | 18.9 | 19.6 |
| | Lb/h | 710 | 683 | 656 | 629 | 600 | 566 | 528 |
| **40** | Btu/h | 65500 | 61000 | 56500 | 52200 | 47800 | 43300 | 38700 |
| | Watts | 2970 | 3280 | 3590 | 3890 | 4160 | 4400 | 4600 |
| | Amps | 13.3 | 14.8 | 16.2 | 17.5 | 18.7 | 19.7 | 20.6 |
| | Lb/h | 789 | 761 | 733 | 705 | 675 | 641 | 601 |
| **45** | Btu/h | 72900 | 68000 | 63200 | 58500 | 53800 | 49000 | 44100 |
| | Watts | 2930 | 3290 | 3640 | 3980 | 4290 | 4570 | 4810 |
| | Amps | 13.2 | 14.8 | 16.4 | 17.9 | 19.2 | 20.5 | 21.6 |
| | Lb/h | 874 | 844 | 815 | 786 | 755 | 720 | 680 |
| **50** | Btu/h | 80900 | 75500 | 70400 | 65300 | 60200 | 55100 | 49800 |
| | Watts | 2880 | 3270 | 3670 | 4040 | 4400 | 4720 | 5010 |
| | Amps | 12.9 | 14.7 | 16.5 | 18.2 | 19.7 | 21.2 | 22.5 |
| | Lb/h | 964 | 932 | 902 | 872 | 840 | 804 | 764 |
| **55** | Btu/h | 89300 | 83500 | 78000 | 72500 | 67100 | 61600 | 56000 |
| | Watts | 2790 | 3230 | 3670 | 4090 | 4490 | 4860 | 5190 |
| | Amps | 12.6 | 14.6 | 16.5 | 18.4 | 20.1 | 21.8 | 23.3 |
| | Lb/h | 1060 | 1030 | 994 | 963 | 930 | 894 | 853 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|---|---|---|---|---|
| C1 | 5.073929E+04 | 2.655441E+03 | 6.575445E+00 | 6.005296E+02 |
| C2 | 1.205109E+03 | -1.414687E+01 | -8.494259E-04 | 1.245797E+01 |
| C3 | -5.623161E+02 | -1.898449E+01 | 4.001768E-02 | -7.745266E+00 |
| C4 | 1.028088E+01 | -5.024157E-01 | -2.291977E-03 | 8.649008E-02 |
| C5 | -6.828047E+00 | 4.620921E-01 | 9.378998E-04 | -5.828669E-02 |
| C6 | 3.649672E+00 | 3.191092E-01 | 5.117570E-04 | 6.868472E-02 |
| C7 | 1.547763E-02 | -1.625803E-03 | -8.577516E-06 | 1.243314E-04 |
| C8 | -3.143173E-02 | 2.794375E-03 | 1.448495E-05 | -1.431820E-05 |
| C9 | 1.240724E-02 | 5.174269E-04 | 6.789365E-06 | 1.839767E-04 |
| C10 | -1.274192E-02 | -1.383983E-03 | -4.063961E-06 | -2.625241E-04 |

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature